

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **60239331 A**(43) Date of publication of application: **28.11.85**

(51) Int. Cl.

C03B 11/05
C03B 11/16
C03B 23/00

(21) Application number: **59095381**(22) Date of filing: **12.05.84**(71) Applicant: **NIPPON SHEET GLASS CO LTD**

(72) Inventor:
INOUE MASAHIRO
MIWA TAKAO
SHIBAOKA KAZUO

(54) **FORMING APPARATUS**

(57) Abstract:

PURPOSE: To make the axes of upper and lower dies coincide with each other in a glass forming apparatus at all times and to improve the yield of products by fixing the upper plate to a press shaft without directly bonding a plunger shaft provided with the upper die to the press shaft, attaching suspending rods to the upper plate, and making a lower plate movable with respect to the upper plate.

CONSTITUTION: The lower die 7 for forming is placed in a furnace 8 for forming a glass article, and a glass blank 30 heated to a temp. close to the softening point is put in the die 7. The upper die 25 for forming is suspended from the plunger shaft 24. The press shaft 15 for pressing the upper die 25, an upper plate 17 fixed to the shaft 15 and a lower plate 26 connected to the plate 17 with freely swingable suspending rods 20 each having a spring 29 are placed over the furnace 8, and the upper end of the plunger shaft 24 is fixed on the lower plate 26. When the glass blank 30 is press-formed into a prescribed shape with the upper and lower dies 25, 7, the axes of the dies 25, 7 are automatically made to coincide with each other at all times by moving the lower plate 26 connected to the upper plate 17 with the

movable suspending rods 20, so the production of defective formed glass articles is reduced.

COPYRIGHT: (C)1985,JPO&Japio

